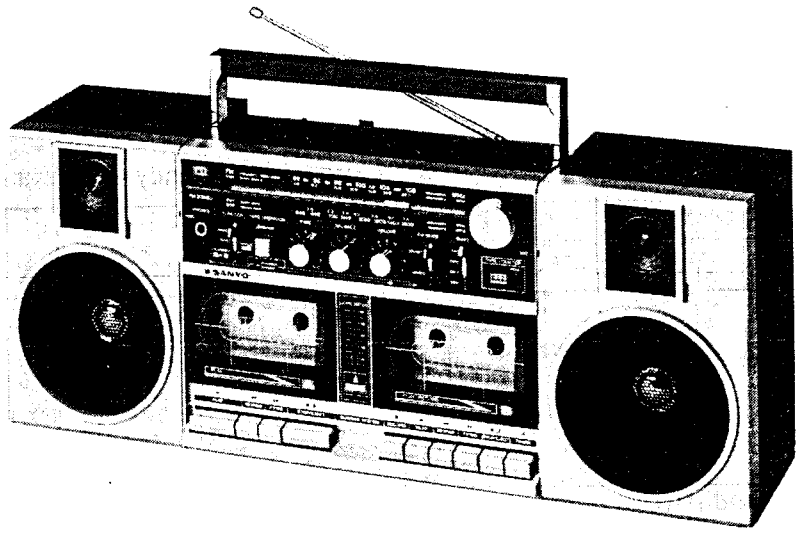
SERVICE MANUAL

SANYO

STEREO RADIO DOUBLE CASSETTE RECORDER

M-W2K

General



SPECIFICATIONS

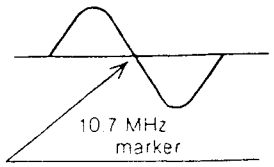
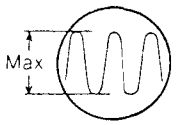
Power Source	
AC	120/210/240V (50/60Hz)
DC	9V (D Cell x 6)
Output Power	2.0 W x 2 (10%)
Power Consumption	15 W
Recording System	AC Bias
Erasing System	AC Erasing
Tape Speed	4.75 cm/sec. ±3%
Fast Forward Time	110 sec. (C-60 cassette)
Rewind Time	110 sec. (C-60 cassette)
Wow & Flutter	0.3 % WRMS
Frequency Response	100 — 8,000 Hz
Signal to Noise Ratio	Better than 40 dB
Hum & Noise	Less than 50 dBs
Crosstalk	Better than 45 dB
Channel Separation	Better than 45 dB
Terminal Impedance	
MIC	600 ohm
Speaker	3 ohms
Headphone	8 ohms
Frequency Range	
MW	520 — 1,620 kHz
SW1	2.3 — 7.0 MHz
SW2	7.0 — 22.0 MHz
FM	88 — 108 MHz
Input Sensitivity	
MIC	0.3 mV

NOTE: Specifications are subject to change without notice.

ALIGNMENT PROCEDURES

FM ALIGNMENT

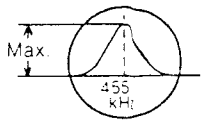
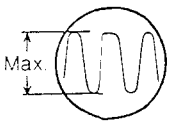
Standard test frequency 400 Hz and deviation 22.5 kHz

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT				
1	Calibration of IF	Place ouptut of gene-scope on TP1	Connect input terminal of gene-scope to TP2	10.7 MHz	Lowest end	T1 and T2	
2	Calibration of Tuning Range	Connect signal generator to antenna terminal (J1) through dummy antenna.	Connect VTVM with 4 ohm dummy load and oscilloscope to speaker terminal.	87.2 MHz		L3	Obtain sine-curve and maximum amplitude. 
3				108.5 MHz	Highest end	CT2 (PVC)	
4	Adjustment of Tracking			90 MHz	90 MHz	L2	
5				106 MHz	106 MHz	CT1 (PVC)	
6	Repeat the above adjustments.						

* Use a screwdriver with plastic grip for all adjustment.

MW ALIGNMENT

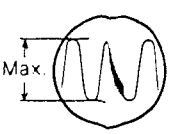
Standard test frequency 400 Hz and modulation 30% at AM

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT				
1	Calibration of IF for AM	Place output of genescope to 1 pin (IC1).	Connect input terminal of gene-scope to TP2	455 kHz	Lowest end	T3 and T4	Obtain symmetrical curve and maximum amplitude. 
2	Adjustment of IF Gain						
3	Calibration of Tuning Range	Connect standard loop antenna to output of signal generator. Place bar antenna 60 cm away from loop antenna.	Connect VTVM with 4 ohm dummy load and oscilloscope to speaker terminal.	515 kHz		L5	Obtain sine-wave of 400 Hz and maximum amplitude. 
4				1660 kHz	Highest end	CT5	
5	Adjustment of Tracking			600 kHz	600 kHz	L8 (bar ant. coil)	
6				1400 kHz	1400 kHz	CT6	
7	Repeat the above adjustments.						

FM MPX ALIGNMENT

Step	Alignment	Connections		Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT			
1	FM MPX	Connect TP2 to the GND.	Connect Frequency counter to TP3	—	SVR1	Obtain 19 kHz on the frequency counter

SW1 ALIGNMENT

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT				
1	Calibration of Tuning Range	Connect signal generator to terminal (J1) through dummy antenna.	Connect VTVM with 4 ohm dummy load and oscilloscope to Ext. speaker terminal.	2.2 MHz	Lowest end	L6	Obtain sine-wave of 400Hz and maximum amplitude. 
2				7.4 MHz	Highest end	CT3 (PVC)	
3	Adjustment of Tracking			2.5 MHz	2.5 MHz	L9	
4				6.5 MHz	6.5 MHz	—	
5	Repeat the above adjustments.						

PARTS LIST (CASSETTE MECHANISM A)

Key No.	PART No.	DESCRIPTION	Q'ty
		CASSETTE MECHANISM (R-S97123)	
1	R-S07485	Head, Dummy	1
2		Screw, Bind Hd., (+,−), 2x7mm	2
3		Screw, Pan Hd., (+,−), 2x7mm	1
4		Screw, Bind Hd., (+,−), 2x7mm	1
5	R-S07484	Head, Record/Play	1
6	ATN-18000403	Spring	1
7	ATN-180004301	Pinch roller assembly	1
8	ATN-17152015	Stopper, Pinch roller arm	1
9	ATN-97430000	P washer cut, 1.6mmx3.8mmx0.3mmt	2
10	ATN-180005301	Take up reel assembly	1
11	ATN-18000509	Spring	1
12	ATN-12001201	Special screw	3
13	ATN-18000934	Push button base, Right	1
14	ATN-97180000	Special screw	1
15	ATN-93610000	Flat washer, Nylon, 1.8mmx5mmx0.5mmt	1
16	ATN-18000935A	Push button base, Left	1
17	ATN-180006301	RF pulley arm assembly	1
18	ATN-94210000	P washer cut, 1.2mmx3mmx0.25mmt	2
19	ATN-18000605	Take-up roller assembly	1
20	ATN-18000608	Spring	1
21	ATN-180006501	Arm assembly, Take-up roller	1
22	ATN-18000609	Collar	1
23		Tap. Screw, Pan Hd., C-tight, 2x4mm	1
24	ATN-180007303	Flywheel assembly	1
25	ATN-18001007	Main belt	1
26	ATN-12000906	Flywheel plate	1
27	ATN-18000712	Holder, Flywheel	1
28		Tap. Screw, Bind Hd., P-tight, 2x9mm	1
29	ATN-180009320	Push button actuator assembly	1
30	ATN-18000917	Shaft, Actuator	1
31	ATN-18000919	Spring	1
32	ATN-17000921	Shaft, Actuator	1
33	ATN-EG-500AD-9B	Motor	1
34		Screw, Round Hd., HIOS, 2.6x5mm	3
35		Screw, Pan Hd., 2.6x5mm	1

Key No.	PART No.	DESCRIPTION	Q'ty
36	ATN-15101103	Collar, Eject	2
37	ATN-18001123	Spring	1
38	ATN-18001103A	Slide lever, Eject	1
39		E-ring, Metal, 3.2mmd	1
40	ATN-180001503	Chassis assembly	1
41		Screw, Round Hd., HIOS, 2.6x4mm	5
42	ATN-17000977	Shaft, Push button lever	1
43	ATN-17000805	Bracket, Side	1
44	ATN-18000316	Panel, Head	1
45	ATN-18000309	Spring, Head panel	1
46	ATN-18000305	Head base	1
47	ATN-18001404	Spring	1
48	ATN-93330000	Washer, 2.4mmx7mmx0.2mmt	1
49	ATN-93120000	Washer, 2.1mmx5mmx0.4mmt	1
50	ATN-14400315	Spring	1
51	ATN-180003303	Plate assembly, Sensing	1
52	ATN-18000507	Spring	1
53	ATN-180005302	Supply reel assembly	1
54	ATN-18000610	FF gear	1
55	ATN-18000201	Lever, Record safety	1
56	ATN-17000104	Pack spring	1
57	ATN-18001015	Rubber, Motor	3
58	ATN-MSW-1275ASNK	Leaf switch	1
59	ATN-18000957	Spring	1
60		Tap. Screw, Pan Hd., P-tight, 2x6mm	1
61	ATN-18000905	Spring	1
62	ATN-18000907	Spring	1
63		Tap. Screw, Pan Hd., C-tight, 2x6mm	1
64	ATN-18000903	Spring	1
65	ATN-97760000	Flat washer, Nylon, 2.05mmx8mmx0.5mmt	1
66	ATN-18000707	Spring	1
67	ATN-18000930	Lever, Stop button	1
68	ATN-18000929	Lever, FF button	1
69	ATN-18000928	Lever, RWD button	1
70	ATN-18000943	Lever, Play button	1
71	ATN-17001031	Bracket, Motor	1
72	ATN-18001001	Pulley, Motor	1

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST (CASSETTE MECHANISM B)

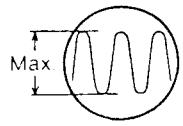
Key No.	PART No.	DESCRIPTION	Q'ty
		CASSETTE MECHANISM (R-S97124)	
1	ATN-18000316	Head panel	1
2	ATN-18000309	Head panel spring	1
3	ATN-18000305	Head base	1
4	ATN-18001404	RC spring	1
5		E-ring, metal, 3.2mmd	2
6	R-S07257-1	Erase head	1
7		Screw, Bind Hd., (+,−), 2x7mm	3
8		Screw, Pan Hd., (+,−), 2x7mm	1
9	ATN-180004301	Pinch roller assembly	1
10	ATN-17152015	Pinch roller arm stopper	1
11	ATN-97430000	P washer cut, 1.6mmx3.8mmx0.3mmt	2
12	ATN-180005301	Take-up reel assembly	1
13	ATN-18000934	Push button base right	1
14	ATN-97180000	Special screw	1
15	ATN-93610000	Flat washer, Nylon, 1.8mmx5mmx0.5mmt	1
16	ATN-18000935A	Push button base left	1
17	ATN-180006501	Take-up roller arm assembly	1
18	ATN-18000605	Take-up roller assembly	1
19	ATN-94210000	P washer cut, 1.2mmx3mmx0.25mmt	2
20	ATN-18000608	Spring	1
21	ATN-12001201	Special screw	3
22	ATN-5880910	Motor rubber	3
23		Screw, Round Hd., HIOS, 2.6x4mm	7
24	ATN-18001021	Motor bracket	1
25	ATN-18001001	Motor pulley	1
26	ATN-EG-500AD-9B	Motor	1
27	ATN-12000906	Flywheel plate	1
28	ATN-18000712	Flywheel holder	1
29		Tap. Screw, Bind Hd., P-tight, 2x9mm	1
30	ATN-18201032	Pause lever stopper	1
31	ATN-18000958	Spring	1
32	ATN-18000917	Actuator shaft	1
33	ATN-180009505	Push button actuator assembly	1
34	ATN-18000919	Spring	1
35	ATN-17000921	Actuator shaft	1
36		Screw, Round Hd., HIOS, 2.6x5mm	1
37		Screw, Pan Hd., 2.6x5mm	1
38	ATN-15101103	Eject collar	2

Key No.	PART No.	DESCRIPTION	Q'ty
39	ATN-18001123	Spring	1
40	ATN-18001103A	Eject slide lever	1
41	ATN-17000810	Side bracket right	1
42	ATN-17000977	Push button lever shaft	1
43	ATN-180001503	Chassis assembly	1
44	ATN-180003305	Sensing plate assembly	1
45	ATN-14400315	Spring	1
46	ATN-93120000	Washer, 2.1mmx5mmx0.4mmt	1
47	R-S07373-6	Record/Play head	1
48	ATN-18000405	Spring	1
49	ATN-180005302	Supply reel assembly	1
50	ATN-18000507	Spring	1
51	ATN-18000610	FF gear	1
52	ATN-18000509	Spring	1
53	ATN-18000201	Record safety lever	1
54	ATN-1 000104	Pack spring	1
55	ATN-18000926	REC button lever	1
56	ATN-18000903	Spring	2
57	ATN-18000957	Spring	2
58		Tap. Screw, Pan Hd., C-tight, 2x6mm	1
59		Tap. Screw, Pan Hd., C-tight, 2x5mm	2
60	ATN-18000609	Collar	1
61		Tap. Screw, Pan Hd., C-tight, 2x4mm	1
62		Flat washer, Nylon, 2.1mmx7mmx0.5mmt	1
63	ATN-18000707	Spring	1
64	ATN-180007303	Flywheel assembly	1
65	ATN-18001007	Main belt	1
66	ATN-180006304	RF pulley arm assembly	1
67	ATN-12221702	Pause lever	1
68	ATN-180009504	Pause button lever assembly	1
69	ATN-18000930	Stop button lever	1
70	ATN-18000929	FF button lever	1
71	ATN-18000928	RWD button lever	1
72	ATN-18000943	Play button lever	1
73	ATN-17000845	Bracket	1
74	ATN-18000905	Spring	1
75	ATN-18000907	Spring	1
76	ATN-MSW-1275ASNK	Leaf switch	1
77		Tap. Screw, Pan Hd., P-tight, 2x8mm	1

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

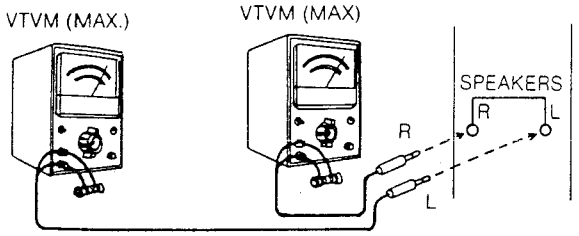
ALIGNMENT PROCEDURES

SW2 ALIGNMENT

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT				
1	Calibration of Tuning Range	Connect signal generator to antenna terminal (J1) through dummy antenna.	Connect VTVM with 4 ohm dummy load and oscilloscope to Ext. speaker terminal.	6.9 MHz	Lowest end	L7	Obtain sine-wave of 400 Hz and maximum amplitude. 
2				23.2 MHz	Highest end	CT4 (PVC)	
3	Adjustment of Tracking			7 MHz	7 MHz	L10	
4				21 MHz	21 MHz	——	
5	Repeat the above adjustments.						

HEAD AZIMUTH ADJUSTMENT

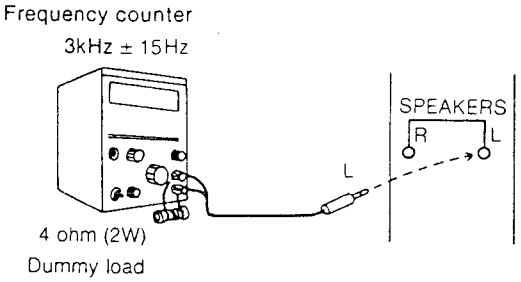
1. Load test tape MTT-114 in the cassette case.
2. Connect a VTVM to the LEFT EXT SP jack, and another VTVM to the RIGHT EXT SP jack.
3. Place the FUNCTION SELECT switch in the TAPE MODE and playback.



4. Adjust the head azimuth adjusting screw for maximum playback output on the VTVM's.

TAPE SPEED ADJUSTMENT

1. Load test tape MTT-111 which has been recorded with a 3,000 Hz test signal.
2. Connect the frequency counter to the LEFT EXT SP jack in parallel with the VTVM.



3. Place the tape deck in the play mode.
4. Adjust the trim pot in the motor for 2,985 Hz to 3,015 Hz reading on the frequency counter.

MECHANICAL ADJUSTMENT

Can not be done.

ITEM	MODE	SPEC	MEASUREMENT METHOD	REMARKS
Pinch roller adjustment	Playback	300~500 gr	Hook the spring gauge to pinch roller metal and pull it away from the capstan. Measure the pressure the moment the pinch roller comes in contact with the capstan and the pinch roller starts rotating.	See figure 1
Take-up torque adjustment	Playback	40~70 g.cm	Mount the cassette torque meter in the same way as the cassette tape. The take-up torque is shown on the torque meter.	—
Fast-forward and rewinding torque adjustment	F.F or rewind	55~150 g.cm	Mount the cassette torque meter in the same way as the cassette tape. The F.Forward and rewind torque is shown on the torque meter.	—
Wow and flutter JIS weighted	Playback	0.1%	Play back 3kHz (tset) tape and read with the wow meter.	—

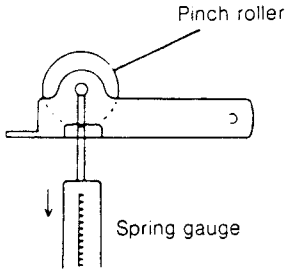
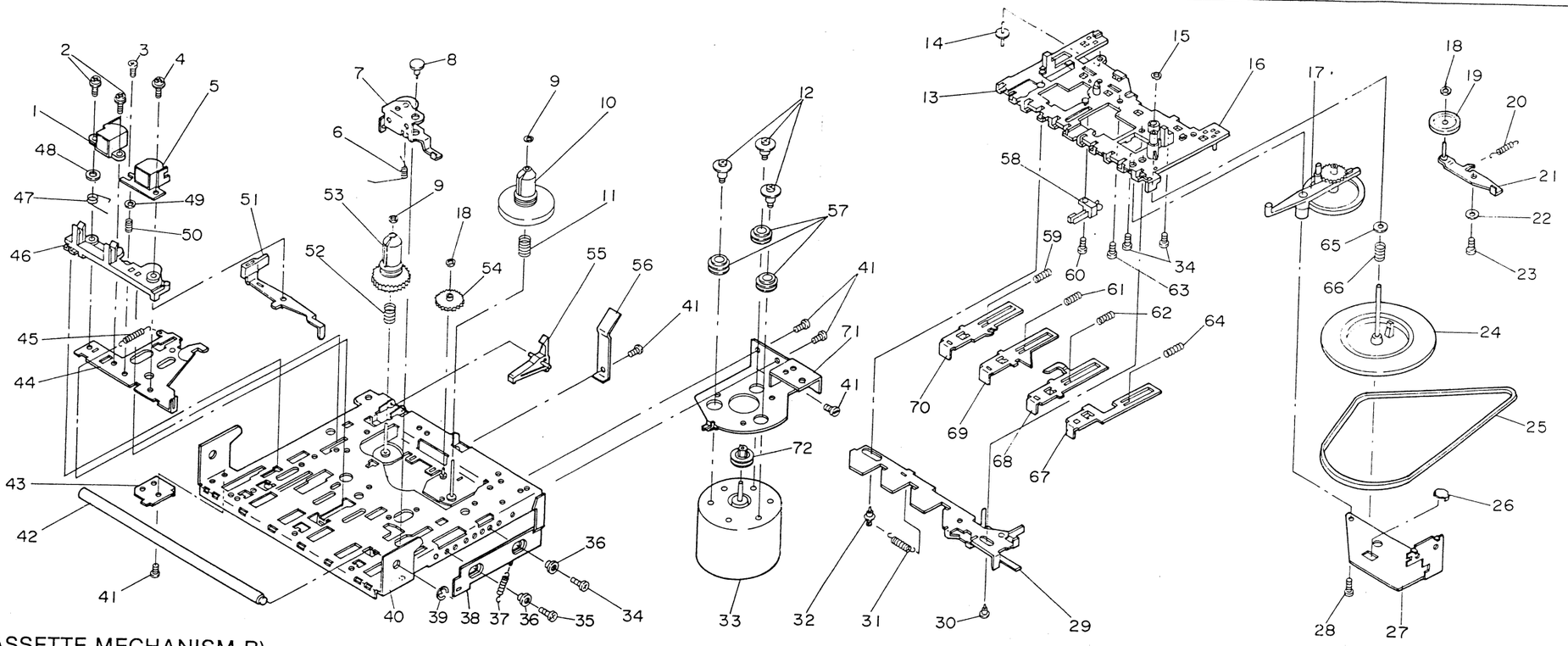
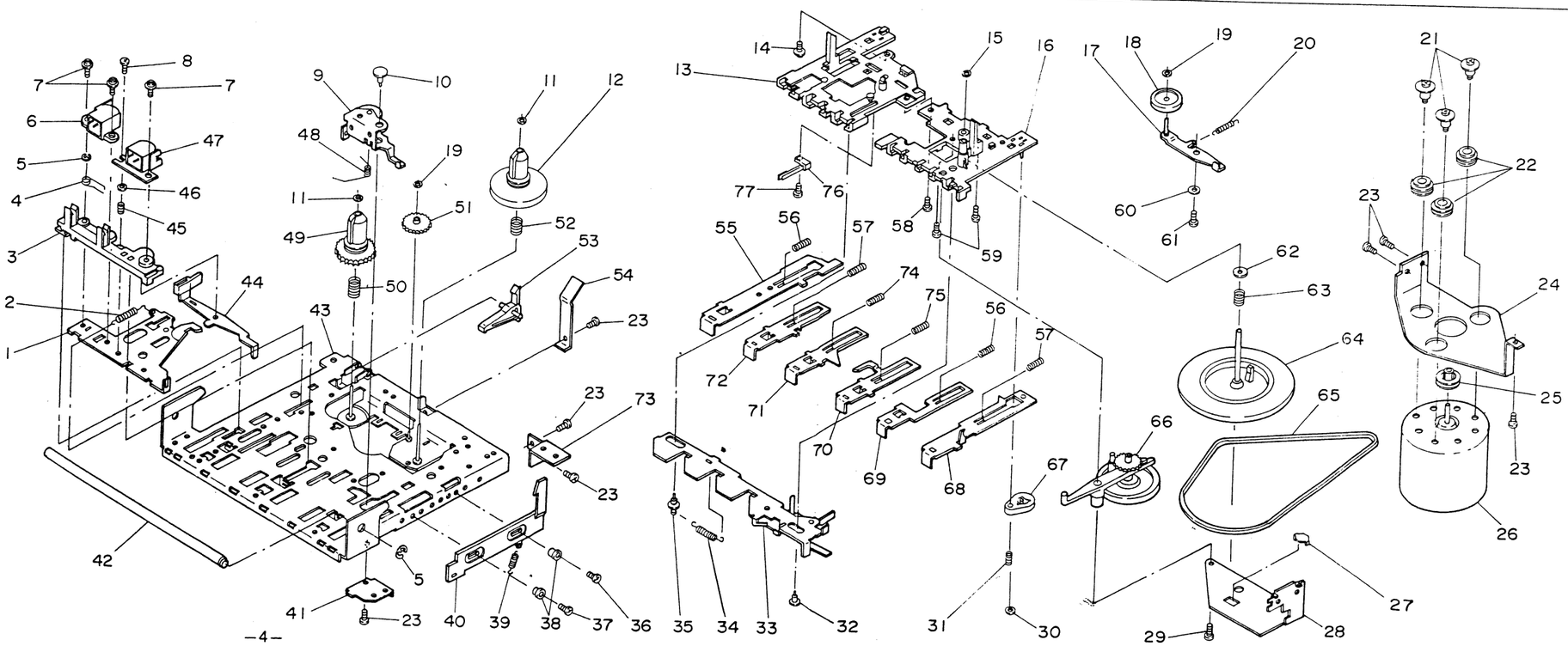


Fig-1

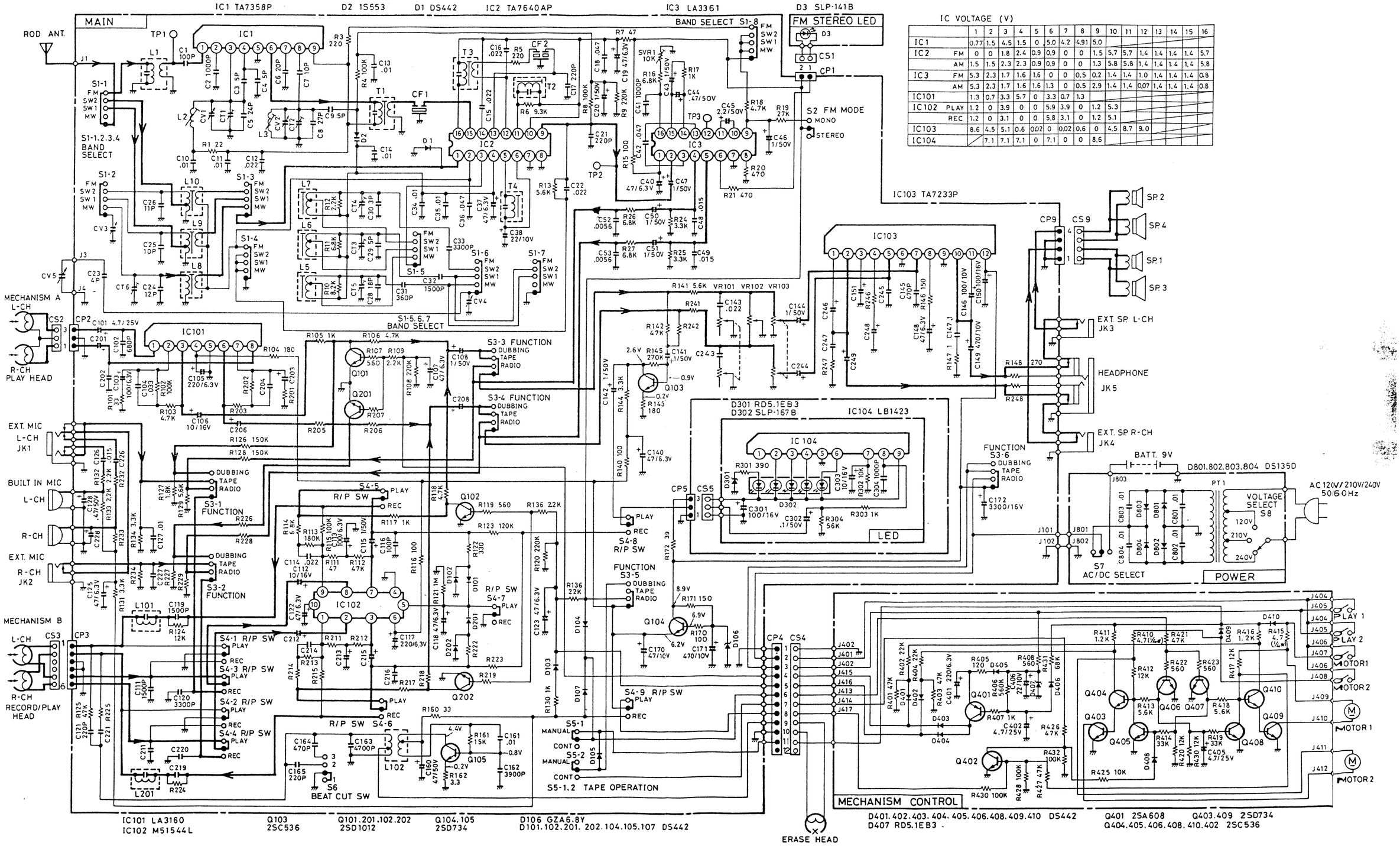
EXPLODED VIEW (CASSETTE MECHANISM A)



EXPLODED VIEW (CASSETTE MECHANISM B)



SCHEMATIC DIAGRAM

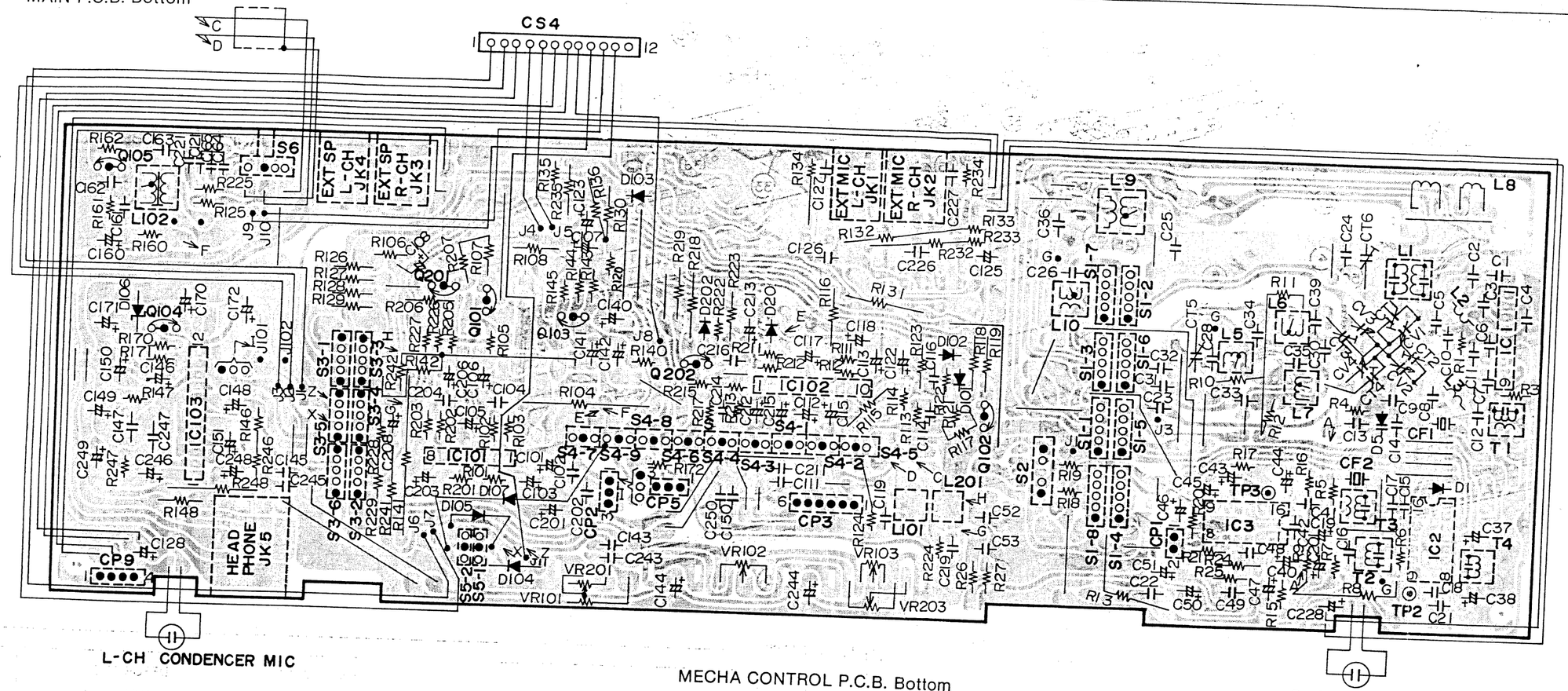


IC VOLTAGE (V)

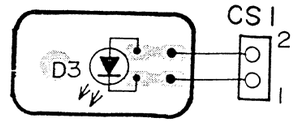
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC1		0.77	1.5	4.5	1.5	0	5.0	4.2	4.91	5.0							
IC2	FM	0	0	1.8	2.4	0.9	0.9	0	0	1.5	5.7	5.7	1.4	1.4	1.4	1.4	5.7
	AM	1.5	1.5	2.3	2.3	0.9	0.9	0	0	1.3	5.8	5.8	1.4	1.4	1.4	1.4	5.8
IC3	FM	5.3	2.3	1.7	1.6	1.6	0	0	0.5	0.2	1.4	1.4	1.0	1.4	1.4	1.4	0.8
	AM	5.3	2.3	1.7	1.6	1.6	1.3	0	0.5	2.9	1.4	1.4	0.07	1.4	1.4	1.4	0.8
IC101		1.3	0.7	3.3	5.7	0	3.3	0.7	1.3								
IC102	PLAY	1.2	0	3.9	0	0	5.9	3.9	0	1.2	5.3						
	REC	1.2	0	3.1	0	0	5.8	3.1	0	1.2	5.1						
IC103		8.6	4.5	5.1	0.6	0.02	0	0.02	0.6	0	4.5	8.7	9.0				
IC104			7.1	7.1	7.1	0	7.1	0	0	8.6							

WIRING DIAGRAM

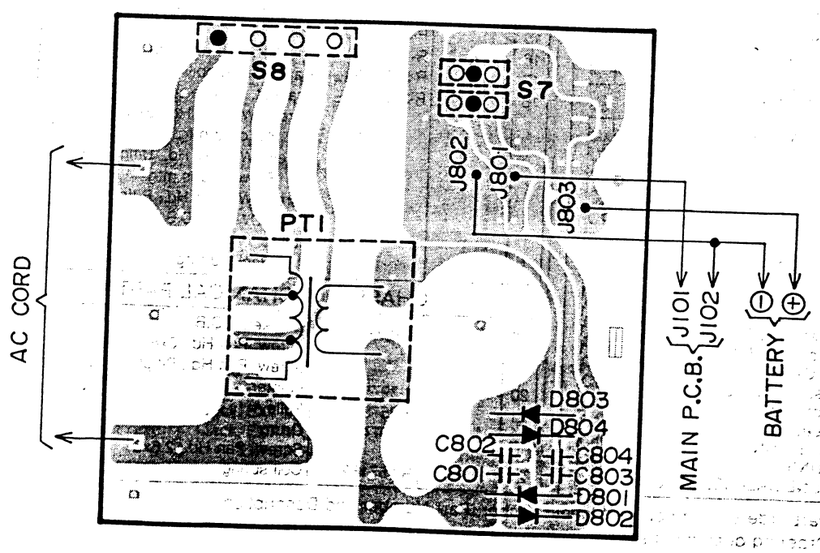
MAIN P.C.B. Bottom



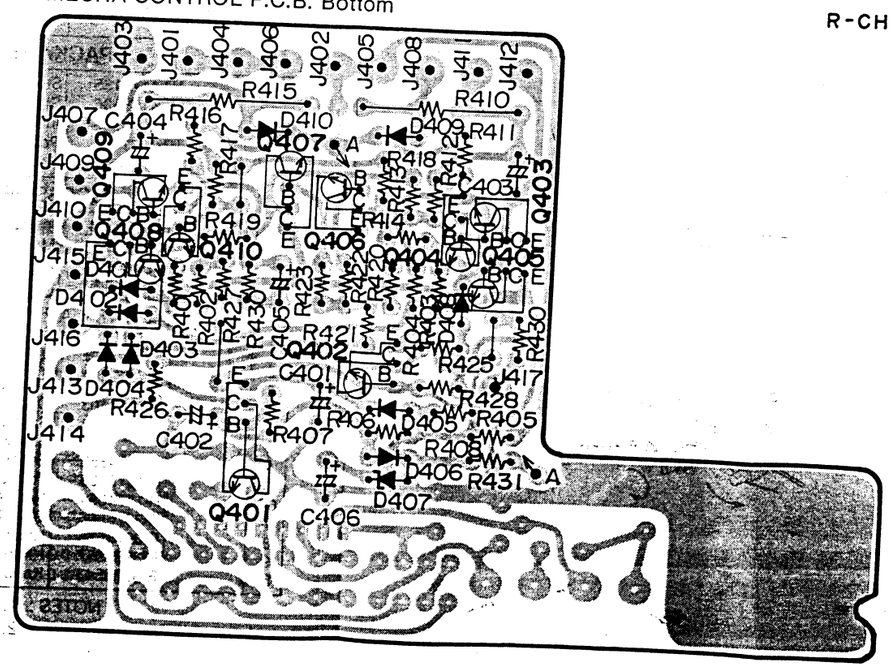
FM STEREO LED P.C.B. Bottom



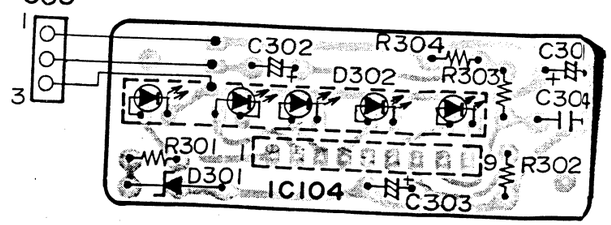
POWER P.C.B. Bottom



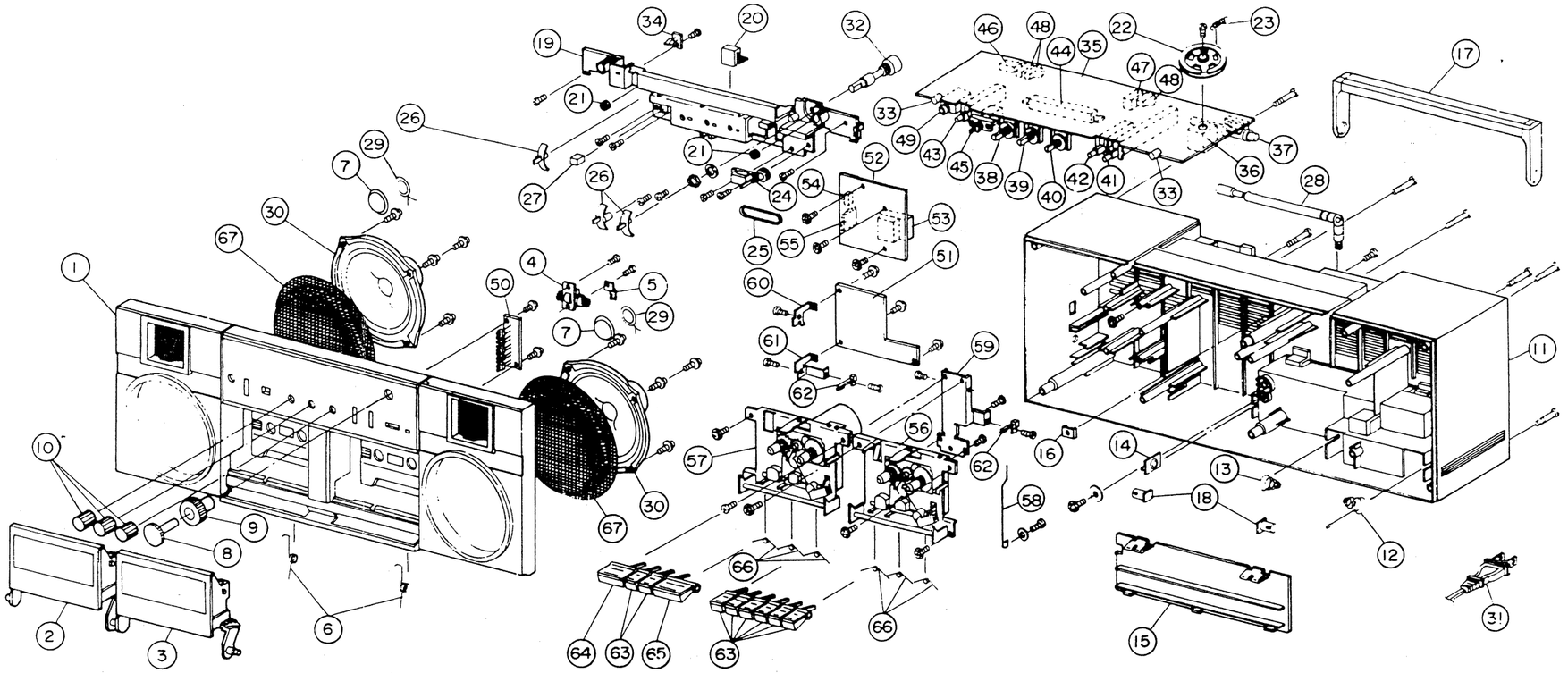
MECHA CONTROL P.C.B. Bottom



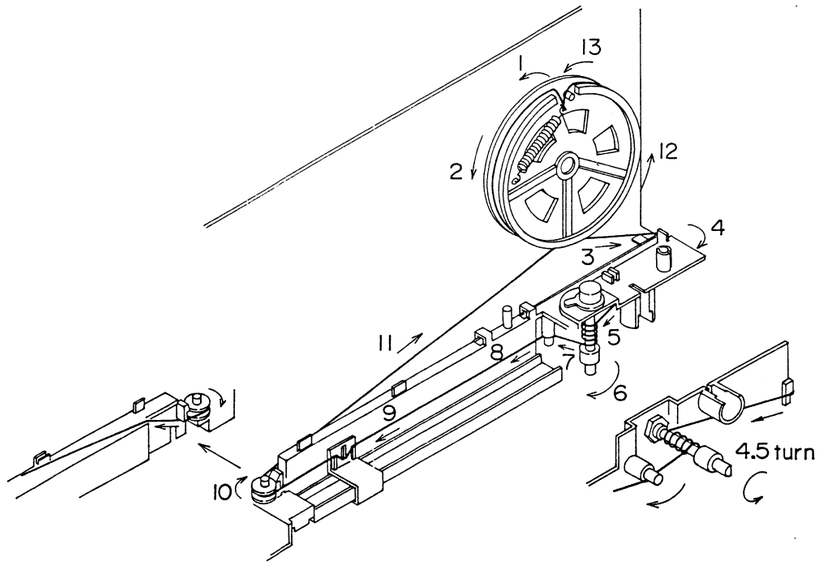
LED P.C.B. Bottom



JED VIEW (CABINET & CHASSIS)



DIAL CORD STRINGING



NOTE
Pointer : Lowest end and "0" point at same time
String : ø0.5 x 964mm (effective 864mm)

PARTS LIST

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
			PACKAGE PARTS	
		R-4175135	Styro-foam cushion, Set right	1
		R-4175136	Styro-foam cushion, Set left	1
		R-4076905	Individual carton	1
		R-357742	Polyethylene bag, Set	1
		R-4775030	Caution tag	1
			ACCESSORY PARTS	
		R-4777434	Instruction manual	1
		R-S07193-1	Magnetic tape	1
		R-S27556 / R-S27556-2	} or Plug adaptor	1
			CABINET APPEARANCE PARTS	
1		R-A700461	Front panel assembly	1
2		R-A79873	Door assembly, Cassette A	1
3		R-A79874	Door assembly, Cassette B	1
4		R-S873103	Dumper	1
			Screw. Pan Hd., P-tight, 3x10	1
			Screw, Pan Hd., P-tight, 3x8	1
5		R-1274852	Bracket, Case	1
6		R-1572108	Torsion spring, Cassette case	2
67		R-1274854	Net, Woofer	2
7		R-3975566	Cap. Tweeter	2
8		R-3975556	Knob, FINE TUNING	1
9		R-3975557	Knob, TUNING	1
10		R-3975543-1	Knob, TONE/BALANCE/VOLUME	3

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'
11		R-317983	Back lid	1
12		R-1571826	Coil spring, Battery terminal (+), (–)	1
13		R-1571526	Coil spring, Battery terminal (–)	1
14		R-237214	Battery terminal (+)	1
15		R-317921-1	Battery lid	1
16		R-1274530	Bracket, Rod antenna	1
17		R-S873098	Handle assembly	1
18		R-3975565	Bracket, Handle	2
			Screw, Washer Hd., B-tight, 3x8 AC cord mtg.	1
			Screw, Washer Hd., B-tight, 3x12 Power trans mtg.	2
			Screw, Washer Hd., B-tight, 3x10 POWER P.C.B. mtg.	3
			Screw, Pan Hd., B-tight, 3x30 Back lid mtg.	7
			CHASSIS MECHANICAL PARTS	
19		R-317988	Bracket, P.C.B.	1
			Screw, Pan Hd., 3x8	4
			Screw, Pan Hd., P-tight, 3x12	2
20		R-3975887	Pointer	1
21		R-357398	Pulley	2
22		R-3974914	Drum	1
			Screw, Pan Hd., 2.6x6	1
23		R-157189	Coil spring	1

NOTES : 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST (CONTINUED)

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
	C111,241		SBL ceramic, 0.0015mfd, ±10%, 25V	2
	C114,214,143,243		SBL ceramic, 0.022mfd, ±10%, 25V	4
	C119,219		SBL ceramic, 0.0012mfd, ±10%, 25V	2
	C120,220		SBL ceramic, 0.0033mfd, ±10%, 25V	2
	C19,40,103,203,113,213		Electrolytic, 100mfd/6.3V	6
	C20,43,46,47,50,51,115, 215,141,142,144,244, 108,208		Electrolytic, 1mfd/50V	14
	C37,125,118,122,140, 148,248,107,123		Electrolytic, 47mfd/6.3V	9
	C38		Electrolytic, 22mfd/10V	1
	C44		Electrolytic, 0.47mfd/50V	1
	C45		Electrolytic, 2.2mfd/50V	1
	C101,201		Electrolytic, 4.7mfd/25V	2
	C105,117		Electrolytic, 220mfd/6.3V	2
	C106,206,112,212		Electrolytic, 10mfd/16V	4
	C146,246		Electrolytic, 100mfd/10V	2
	C149,249		Electrolytic, 470mfd/10V	2
	C150		Electrolytic, 100mfd/16V	1
	C151		Electrolytic, 47mfd/16V	1
	C170		Electrolytic, 47mfd/10V	1
	C171		Electrolytic, 470mfd/10V	1
	C172		Electrolytic, 3300mfd/16V	1
	C160		Electrolytic, 47mfd/50V	1
	C128,228		Electrolytic, 0.22mfd/50V	2
	C52,53		SBL ceramic, 0.0056mfd, ±10%, 25V	2
	C126,226		SBL ceramic, 0.033mfd, ±20%, 25V	2
	LED P.C.B. ASSEMBLY			
50		R-A700148	Circuit board assembly, LED, W/O LED	1
			SEMICONDUCTORS	
	IC104		IC, LB1423, LED DRIVE	1
	D301		Zener diode, RD5.1EB3	1
			RESISTORS	
	(Resistors are of carbon type, ±5% allowance and 1/6W unless otherwise noted.)			
	R301		390 ohm	1
	R302		10 k ohm	1
	R303		1 k ohm	1
	R304		27 k ohm	1
			CAPACITORS	
	C304		Ceramic, 0.001mfd, ±10%, 50V, B	1
	C301		Electrolytic, 100mfd/16V	1
	C302		Electrolytic, 0.1mfd/50V	1
	C303		Electrolytic, 10mfd/16V	1
	MECHA CONTROL P.C.B. ASSEMBLY			
51		R-A700149	Circuit board assembly, Mecha control	1
			SEMICONDUCTORS	
	D401~406,408~410		Diode, DS442-VG1	9
	D407		Zener diode, RD5.1EB3	1
	Q403,409		Transistor, 2SD734	2
	Q404~408,410,402		Transistor, 2SC536	7
	Q401		Transistor, 2SA608	1
			RESISTORS	
	(Resistors are of carbon type, ±5% allowance and 1/6W unless otherwise noted.)			
	R401,403,412,417,421, 426		47 k ohm	6
	R402,404		22 k ohm	2
	R405		120 ohm	1

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
	C406		560 k ohm	1
	R407		1 k ohm	1
	R408,422,423		560 ohm	3
	R411,416		1.8 k ohm	2
	R413,414,418,419		33 k ohm	4
	R420,430		100 k ohm	2
	R425		10 k ohm	1
	R427		47 k ohm	1
	R428,430		100 k ohm	2
	R410,415		4.7 ohm, 1/4W, ±5%	2
	R431		68 k ohm	1
			CAPACITORS	
	C401		Electrolytic, 220mfd/6.3V	1
	C402		Electrolytic, 4.7mfd/25V	1
	C403,404		Electrolytic, 220mfd/16V	2
	C405		Electrolytic, 0.1mfd/50V	1
	C406		Electrolytic, 22mfd/10V	1
	POWER P.C.B. ASSEMBLY			
52		R-A700150	Circuit board assembly, Power	1
53	PT1	R-W770333-7	Power transformer	1
54	S7	R-S47973	Slide switch, AC/DC	1
55	S8	R-S47860-1	Rotary switch, VOLTAGE SELECTOR	1
		R-237188	Eyelet lug	2
		R-257277	Socket pin	2
			SEMICONDUCTORS	
	D801~804		Diode, DS135D	4
			CAPACITORS	
	C801~804		Ceramic, 0.01mfd, +80 −20%, 50V, Z	4
	CASSETTE MECHANISM			
56		R-S97124	Cassette mechanism assembly MECHA B	1
57		R-S97123	Cassette mechanism assembly MECHA A	1
			Screw, Washer Hd., B-tight, 3x10	5
58		R-1572046	Wire spring	1
			Screw, Pan Hd., 2.6x5	1
59		R-1274855	Bracket, Mechanism	1
			Screw, Pan Hd., S-tight, 2.6x4	4
			Screw, pan Hd., S-tight, 3x4	1
60		R-1274856	Bracket, P.C.B.	1
			Screw, Pan Hd., S-tight, 2.6x4	1
61		R-1274912	Bracket, P.C.B.	1
			Screw, Pan Hd., S-tight, 2.6x4	1
62		R-S470036	Leaf switch	2
			Screw, Pan Hd., S-tight, 2x6	2
63		R-3975801	Knob, CASSETTE	8
64		R-3975885	Knob, PLAY	1
65		R-3975886	Knob, STOP	1
66		R-1571719A	Torsion spring, Cassette knob	6

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SANYO ELECTRIC TRADING CO., LTD.
33, Hiyoshi-cho 2, Moriguchi-shi,
Osaka-fu, 570, Japan.
Jul./'83/1000 YA Printedn Japan.

PARTS LIST (CONTINUED)

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
24		R-S57263-1	Counter	1
			Screw, Pan Hd., P-tight, 2.6x6	2
25		R-4470779	Belt, Counter	1
26		R-3974904	Knob, FUNCTION/FM MODE/BAND	3
27		R-3975884	Knob, TAPE OPERATION	1
			CHASSIS ELECTRICAL PARTS	
28		R-S17557 or R-S17557-1	Rod antenna	1
			Screw, Pan Hd., 3x25	1
29	SP1,2	R-S07381-4	Speaker, Tweeter	2
30	SP3,4	R-S07452-1	Speaker, Woofer	2
31		R-S3708-3	AC cord	1
32	CV5	R-C1743A	Variable capacitor, FINE TUNING	1
33		R-S07379-1	Mic, BUILT IN MIC	2
	CS1	R-377142-2	Housing	1
	CS2,5	R-377142-3	Housing	2
	CS3	R-377142-6	Housing	1
	CS9	R-377142-4	Housing	1
		R-257295-1	Terminal, Housing	18
34		R-4175078-3	Printed circuit board, FM STEREO LED	1/4
	CS4	R-377089-10	Housing	1
		R-257236-1	Terminal, Housing	10
	CP4	R-377088-10	Housing	1
		R-247755	Terminal, Housing	10
			SEMICONDUCTORS	
	D3		LED, SLP-141B, FM STEREO LED P.C.B.	1
	D302		LED, SLP-167B, LED P.C.B.	1
			MAIN P.C.B. ASSEMBLY	
35		R-A700147	Circuit board assembly, Main	1
36	CV1~4 CT1~4	R-C1740-2	Variable capacitor	1
	L1	R-W27204	Antenna coil, FM BPF	1
	L2	R-W9756	VHF coil, FM ANT	1
	L3	R-W9743	VHF coil, FM OSC	1
	L5	R-W87079-1	OSC coil, MW OSC	1
	L6	R-W87078-1	OSC coil, SW1 OSC	1
	L7	R-W87077-1	OSC coil, SW2 OSC	1
37	L8	R-W27217	Antenna coil, MW ANT	1
	L9	R-W27225	Antenna coil, SW1, ANT	1
	L10	R-W27215	Antenna coil, SW2 ANT	1
	CT5,6	R-C0740	Trimmer	2
	CF1	R-S17574	Ceramic filter, FM	1
	CF2	R-S17486	Ceramic, filter, AM	1
	T1	R-W5T766-2	IF transformer, FM IFT	1
	T2	R-W5T7058-1	IF transformer, FM DET	1
	T3	R-W5T7030-1	IF transformer, AM IFT	1
	T4	R-W5T7031-2	IF transformer, AM DET	1
	SVR1	R-R1107028-2	Preset resistor, 10 k	1
	L101,201	R-W17083-1	Trap coil	2
	L102	R-W87075-1	OSC coil	1
38	VR101	R-R1167360	Rotary VR,	1
39	VR102	R-R1167393	Rotary VR,	1
40	VR103	R-R1167394	Rotary VR,	1
41	S1	R-S47833	Lever switch, BAND	1
42	S2	R-S47957	Lever switch, FUNCTION	1
43	S3	R-S47837	Lever switch, MONO/STEREO	1
44	S4	R-S47313-2	Slide switch, RECORD/PLAY	1
46	S6	R-S47961	Slide switch, BEAT CUT	1
45	S5	R-S470031	Push switch, TAPE MODE	1
47	JK1	R-S27289-1	Jack, EXT MIC L-CH	1
48	JK2,3,4	R-S27290-1	Jack, EXT MIC R-CH/EXT SP L-CH/ EXT SP R-CH	3
49	JK5	R-S27438-1	Jack, HEADPHONE	1

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
	CP1	R-S27722-2A	Plug	1
	CP2,5	R-S27634-3A	Plug	2
	CP9	R-S27634-4A	Plug	1
	CP3	R-S27634-6A	Plug	1
			SEMICONDUCTORS	
	IC1		IC, TA7358P	1
	IC2		IC, TA7640AP	1
	IC3		IC, LA3361	1
	IC101		IC, LA3160	1
	IC102		IC, M51544L	1
	IC103		IC, TA7233P	1
	Q101,102,201,202		Transistor, 2SD1012	4
	Q103		Transistor, 2SC536	1
	Q104,105		Transistor, 2SD734	2
	D2		Diode, 1S553	1
	D101,102,103,105,201, 202		Diode, DS442-VG1	6
	D104,107		Diode, DS442	2
	D106		Zener diode, GZA6.8Y	1
			RESISTORS	
	(Resistors are of carbon type, ±5% allowance and 1/6W unless otherwise noted.)			
	R1		22 ohm	1
	R101,201,160		33 ohm	3
	R121		2.2 M ohm	1
	R147,247		1 onm	2
	R162		3.3 ohm	1
	R171		150 ohm	1
	R172		39 ohm	1
	R109,209		2.2 k ohm	2
			CAPACITORS	
	C1		Ceramic, 100pF, ±10%, 50V, SL	1
	C2		Ceramic, 0.001mfd, ±10%, 50V, SL	1
	C3,4,23		Ceramic, 5pF, ±0.5pF, 50V, SL	3
	C5		Ceramic, 24pF, ±10%, 50V, SL	1
	C6		Ceramic, 20pF, ±10%, SL	1
	C7		Ceramic, 10pF, ±0.5pF, 50V, C	1
	C8		Ceramic, 27pF, ±10%, 50V, C	1
	C9		Ceramic, 5pF, ±0.5pF, 50V, C	1
	C10,11,13,14,34,35, 127,227		Ceramic, 0.01mfd, +80 −20%, 50V, Z	8
	C12,15,16,22		Ceramic, 0.022mfd, +80 −20%, 50V, Z	4
	C17,21		Ceramic, 220pF, ±10%, 50V, SL	2
	C18,36		Ceramic, 0.047mfd, +80 −20%, 50V, Z	2
	C24		Ceramic, 12pF, ±10%, 50V, SL	1
	C25		Ceramic, 13pF, ±5%, SL	1
	C26		Ceramic, 10pF, ±0.5pF, 50V, SL	1
	C28		Ceramic, 20pF, ±5%, 50V, U	1
	C29		Ceramic, 9pF, +80 −20%, 50V, U	1
	C30		Ceramic, 3pF, +80 −20%, 50V, U	1
	C102,202		Ceramic, 680pF, ±10%, 50V, B	2
	C116,216		Ceramic, 100pF, ±10%, 50V, B	2
	C121,221,165		Ceramic, 220pF, ±10%, 50V, B	3
	C145,245,164		Ceramic, 470pF, ±10%, 50V, B	3
	C41		Ceramic, 0.001mfd, ±5%, 50V, SA	1
	C31		Styrol, 360pF, ±5%, 50V	1
	C32		Mylar, 0.0015mfd, ±5%, 50V	1
	C33		Mylar, 0.0033mfd, ±5%, 50V	1
	C147,247		Mylar, 0.1mfd, ±20%, 50V	2
	C161		Mylar, 0.01mfd, ±10%, 50V	1
	C162		Mylar, 0.0039mfd, ±10%, 50V	1
	C163		Mylar, 0.0047mfd, ±10%, 50V	1
	C42		SBL ceramic, 0.047mfd, ±20%, 25V	1
	C48,49		SBL ceramic, 0.015mfd, ±10%, 25V	2
	C104,204		SBL ceramic, 0.033mfd, ±10%, 25V	2

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